

Amol Sinha

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Professional Summary

Backend .NET Software Engineer delivering production-grade enterprise systems across **insurance and government fintech domains**. At **FM (Factory Mutual)**, contributing to the architecture and development of shared platform APIs and reusable backend services consumed by **10+ downstream enterprise applications**, applying Clean Architecture, CQRS, and GraphQL to standardise integration patterns across product teams. Previously at **Deloitte USI**, owned core backend financial logic for Kentucky's state Health Insurance Exchange, including APTC calculations, QHP enrollment processing, a high-volume auto-enrollment batch pipeline (**100,000+ records per run**), and live-production DataFix operations, earning **two Spot Awards** for measurable financial impact with zero production disruption. Recognised with the **FM Commit to Excellence Award (Q1 2026)** and selected as **one of 11 members globally** for the CEO-led Project Reimagine initiative.

Technical Skills

Languages & Runtime: C#, .NET Core, .NET 8/9/10, ASP.NET Core, MVC, async/await, Exception Handling, Memory Management

APIs & Protocols: REST APIs, GraphQL, Swagger/OpenAPI, API Versioning

Architecture & Patterns: Clean Architecture, Microservices, CQRS, DDD, Repository, Factory, Strategy, SOLID, Dependency Injection, Middleware Pipeline

Backend Engineering: Caching, Background Services, Structured Logging, Resilience Patterns

ORM & Data Access: Entity Framework Core, LINQ, Dapper

Databases: SQL Server, PostgreSQL, Stored Procedures, Query Optimisation, Indexing, Transactions

Cloud & DevOps: Microsoft Azure (App Services, Functions, Service Bus, Key Vault), Docker, CI/CD Pipelines, GitHub Actions, Azure DevOps

Observability: Serilog, OpenTelemetry, Application Insights

Testing: xUnit, NUnit, Moq, Unit Testing, Integration Testing

Experience

FM (Factory Mutual Insurance)

Software Engineer, Shared Services Platform

Bengaluru, India

Dec 2025 – Present

- Designed and developed reusable backend APIs and shared platform services consumed by **10+ downstream enterprise applications**, establishing standardised integration patterns that reduce onboarding effort for new product teams.
- Took part in **architectural and API design discussions** for the shared services platform, helping define service contracts, interface boundaries, and cross-cutting concerns such as auth, error handling, and versioning.
- Engineered secure, high-performance backend services using **.NET 8/9/10, C#, GraphQL, and REST APIs** within a Clean Architecture and CQRS framework, keeping the platform extensible as new teams onboard.
- Conducted regular **code reviews** across the Shared Services team, providing technical feedback that reinforced architectural consistency and raised overall code quality.
- Set up structured logging and observability using **Serilog and OpenTelemetry** to give the team reliable diagnostics and production monitoring across shared services.
- Won **FM Hackathon 2.0** by building a full-cycle Time Tracker application that went from prototype to **production deployment**, now actively used by roughly **300 employees**.
- Selected as **1 of 11 members globally** for the CEO-led *Project Reimagine* initiative, focused on redesigning core business processes using technology and AI.
- Received the **Commit to Excellence Award (Q1 2026)** for delivering the highest volume of bug-free work items on the team with zero post-deployment defects.

Deloitte USI

Analyst, Backend .NET Developer

Bengaluru, India

Jul 2023 – Nov 2025

- **Owned the Enrollments DLL**, the core backend logic layer covering eligibility checks, financial computations, and transaction validation. Also owned the **Auto Enrollment Batch Process**, a scheduled pipeline that handled **100,000+ policy records per run** with rigorous edge-case handling and zero missed assignments.
- Delivered zero-error financial logic for **QHP enrollment** on Kentucky's state Health Insurance Exchange: premium calculations, Advance Premium Tax Credit (APTC) adjustments, proration algorithms, and eligibility validations, each directly affecting subsidy accuracy for Kentucky enrollees.
- Optimised LINQ queries and SQL Server stored procedures across high-traffic API endpoints, cutting average **API response times by 30%** and improving platform responsiveness for a high-compliance government system.
- Authored and executed **DataFix scripts against live production databases** to correct financial discrepancies in premium and APTC records, resolving impacted enrollee data with no business disruption or data integrity violations.
- Designed and maintained RESTful APIs used across internal platform services; applied **Repository, Factory, and Strategy patterns** to reduce duplication and allow core modules to be extended without touching existing business logic.
- Wrote comprehensive **unit and integration tests** using xUnit and Moq across critical financial modules; also helped maintain CI/CD pipeline configurations and release coordination, keeping post-deployment defect rates low across sprint cycles.
- Rolled out structured logging with **Serilog** across backend modules, giving the team clear production visibility and faster incident turnaround.
- Reviewed code regularly across a backend team of fewer than five engineers, covering financial logic correctness, SQL performance, and architectural soundness on a high-compliance U.S. government platform.
- **Spot Award (2025)**: Independently delivered the reinstatement module with accurate financial recalculations and no production disruption.
- **Spot Award (2024)**: Implemented APTC proration logic with direct, measurable impact on subsidy financial calculations.

HighRadius Corporation

Associate Functional Consultant Intern, FinTech SaaS (O2C)

Bhubaneswar, India

Jul 2022 – Dec 2022

- Configured EIPP modules for international clients across tax and compliance domains; conducted gap-fit analysis and translated business requirements into functional specifications for an Order-to-Cash SaaS platform.

Certifications & Awards

Microsoft Certified: Azure AI Engineer Associate (AI-102)

Microsoft

Commit to Excellence Award, Q1 2026

FM (Factory Mutual) – highest quality output across the team

FM Hackathon 2.0 Winner, 2026

Time Tracker deployed to production; ~300 active users

Project Reimagine, 2026

1 of 11 members selected globally; CEO-led initiative

Deloitte Spot Award, 2025

Reinstatement module with zero production disruption

Deloitte Spot Award, 2024

APTC proration logic with direct financial impact

Education

KIIT University, Bhubaneswar, India

2019 – 2023

B.Tech in Electronics and Telecommunication Engineering